



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794



Report Number: 23-003644/D002.R000
Report Date: 04/12/2023
ORELAP#: OR100028
Purchase Order:
Received: 03/28/23 14:22

Customer: Healthy Roots
Product identity: #266, 1200mg Paw Butter
Client/Metric ID: .
Laboratory ID: 23-003644-0001

Summary

Potency:

Analyte	Result	Limits	Units	Status	CBD-Total per Serving Size 1340 mg/100g
CBC	0.0179		%		
CBD	1.33		%		
CBD-A	0.00869		%		THC-Total per Serving Size 23.2 mg/100g
CBDV	0.00436		%		
CBG	0.00491		%		(Reported in milligrams per serving)
CBT	0.00766		%		
Δ9-THC	0.0232		%		
Analyte per 100g	Result	Limits	Units	Status	
CBC per 100g	17.9		mg/100g		
CBD per 100g	1330		mg/100g		
CBD-A per 100g	8.69		mg/100g		
CBDV per 100g	4.36		mg/100g		
CBG per 100g	4.91		mg/100g		
CBT per 100g	7.66		mg/100g		
Δ9-THC per 100g	23.2		mg/100g		



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Customer: Healthy Roots
Product identity: #266, 1200mg Paw Butter
Client/Metric ID: .
Sample Date:
Laboratory ID: 23-003644-0001
Evidence of Cooling: No
Temp: 15.6
Serving Size #1: 100 g

Sample Results

Potency	Method: J AOAC 2015 V98-6 (mod)		Units %	Batch: 2306152	Analyze: 3/31/23 12:34:00 AM
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.0179		%	0.00328	
CBC-A	< LOQ		%	0.00328	
CBC-Total	0.0179		%	0.00615	
CBD [±]	1.33		%	0.0328	
CBD-A [±]	0.00869		%	0.00328	
CBD-Total	1.34		%	0.0357	
CBDV	0.00436		%	0.00328	
CBDV-A	< LOQ		%	0.00328	
CBDV-Total	< LOQ		%	0.00612	
CBE	< LOQ		%	0.00328	
CBG	0.00491		%	0.00328	
CBG-A	< LOQ		%	0.00328	
CBG-Total	< LOQ		%	0.00612	
CBL	< LOQ		%	0.00328	
CBL-A	< LOQ		%	0.00328	
CBL-Total	< LOQ		%	0.00615	
CBN	< LOQ		%	0.00328	
CBT	0.00766		%	0.00328	
Δ8-THCV	< LOQ		%	0.00328	
Δ10-THC-9R	< LOQ		%	0.00328	
Δ10-THC-9S	< LOQ		%	0.00328	
Δ10-THC-Total	< LOQ		%	0.00656	
Δ8-THC [±]	< LOQ		%	0.00328	
Δ9-THC [±]	0.0232		%	0.00328	
exo-THC	< LOQ		%	0.00328	
THC-A [±]	< LOQ		%	0.00328	
THC-Total	0.0232		%	0.00615	
THCV	< LOQ		%	0.00328	
THCV-A	< LOQ		%	0.00328	
THCV-Total	< LOQ		%	0.00612	
Total Cannabinoids	1.40		%		



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Potency per 100g **Method:** J AOAC 2015 V98-6 (mod) **Units** mg/se **Batch:** 2306152 **Analyze:** 3/31/23 12:34:00 AM

Analyte	Result	Limits	Units	LOQ	Notes
CBC per 100g	17.9		mg/100g	3.28	
CBC-A per 100g	< LOQ		mg/100g	3.28	
CBC-Total per 100g	17.9		mg/100g	6.15	
CBD per 100g	1330		mg/100g	32.8	
CBD-A per 100g	8.69		mg/100g	3.28	
CBD-Total per 100g	1340		mg/100g	35.7	
CBDV per 100g	4.36		mg/100g	3.28	
CBDV-A per 100g	< LOQ		mg/100g	3.28	
CBDV-Total per 100g	< LOQ		mg/100g	6.12	
CBE per 100g	< LOQ		mg/100g	3.28	
CBG per 100g	4.91		mg/100g	3.28	
CBG-A per 100g	< LOQ		mg/100g	3.28	
CBG-Total per 100g	< LOQ		mg/100g	6.12	
CBL per 100g	< LOQ		mg/100g	3.28	
CBL-A per 100g	< LOQ		mg/100g	3.28	
CBL-Total per 100g	< LOQ		mg/100g	6.15	
CBN per 100g	< LOQ		mg/100g	3.28	
CBT per 100g	7.66		mg/100g	3.28	
Δ8-THCV per 100g	< LOQ		mg/100g	3.28	
Δ10-THC-9R per 100g	< LOQ		mg/100g	3.28	
Δ10-THC-9S per 100g	< LOQ		mg/100g	3.28	
Δ10-THC-Total per 100g	< LOQ		mg/100g	6.56	
Δ8-THC per 100g	< LOQ		mg/100g	3.28	
Δ9-THC per 100g	23.2		mg/100g	3.28	
exo-THC per 100g	< LOQ		mg/100g	3.28	
THC-A per 100g	< LOQ		mg/100g	3.28	
THC-Total per 100g	23.2		mg/100g	6.15	
THCV per 100g	< LOQ		mg/100g	3.28	
THCV-A per 100g	< LOQ		mg/100g	3.28	
THCV-Total per 100g	< LOQ		mg/100g	6.16	
Total Cannabinoids per 100g	1400		mg/100g		



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Abbreviations

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220, CCR title 16-division 42. BCC-section 5723

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

‡ = TNI accredited analyte.

Units of Measure

g = g

mg/100g = Milligram per 100g

% = Percentage of sample

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager



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Hemp / Cannabis Usable / Extract / Finished Products
Chain of Custody Record
Revision: 4.00 Control#: CF023 Rev 02/24/2021 Eff: 03/04/2021
ORELAP ID: OR100028

4081

CHAIN OF CUSTODY				Analysis Requested												PO Number: _____		
Company: Healthy Roots Contact: Liz Merritt Address: 14325 NE Airport Way, #113 Portland, OR 97230 Email: Healthyrootshemp@gmail.com Phone: 503-496-2329 License: AG-L 1052211FP				Pesticides - OR 59 compounds Pesticide Multi-Residue - 379 compounds Potency Residual Solvents Moisture & Water Activity Terpenes Micro: Yeast and Mold Micro: E Coli and Total Coliform Heavy Metals Mycotoxins Aerobic Plate Count, Salmonella Other: Staphylococcus, Pseudomonas												Project Number: _____ Project Name: _____ Custom Reporting: _____ Report to State - <input type="checkbox"/> METRC or <input type="checkbox"/> Other: _____ Turnaround time: <input checked="" type="checkbox"/> 5 Business Day Standard Turnaround <input type="checkbox"/> 3 Business Day Rush Turnaround* <input type="checkbox"/> 2 Business Day Rush Turnaround* *Check for availability		
Lab ID	Client Sample Identification	Date	Time													Sample Type †	Weight (Units)	Comments/Metric ID
	#266, 1200mg Paw Butter	03/28/23	13:22													T	100g	
	#267, 250mg Roller Bomb	03/28/23	13:22													T	8g	
Relinquished By: Melton, Erica				Date: 03/28/23	Time: 6:22 p	Received By: VFW				Date: 3/28	Time: 14:22	Lab Use Only: <input type="checkbox"/> Shipped Via: _____ or <input checked="" type="checkbox"/> Client drop Evidence of cooling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No - Temp (°C): 15.6 Sample in good condition: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Cash <input type="checkbox"/> Check <input type="checkbox"/> CC <input type="checkbox"/> Net: Prelog storage: _____						

† - Sample Type Codes: Vegetation (V) ; Isolates (S) ; Extract/Concentrate (C) ; Tincture/Topical (T) ; Edible (E) ; Beverage (B)
Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for services in accordance with the current terms of service associated with this COC. By signing "Relinquished by", you are agreeing to these terms
12423 NE Whitaker Way
Portland, OR 97230
P: (503) 254-1794 | Fax: (503) 254-1452
info@columbialaboratories.com
Page _____ of _____
www.columbialaboratories.com



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Revision: 1 Document ID: 7148
Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 2306152

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes	
CBDVA	2	0.0330	0.033	%	98.9	80.0 - 120	Acceptable		
CBDV	2	0.0322	0.033	%	96.5	80.0 - 120	Acceptable		
CBE	2	0.0324	0.033	%	97.1	80.0 - 120	Acceptable		
CBD	1	0.0299	0.031	%	96.6	90.0 - 110	Acceptable		
CBGA	1	0.0249	0.026	%	96.6	80.0 - 120	Acceptable		
CBG	1	0.0305	0.031	%	98.1	80.0 - 120	Acceptable		
THCV	2	0.0263	0.027	%	95.9	90.0 - 110	Acceptable		
THCVA	2	0.0327	0.033	%	98.1	80.0 - 120	Acceptable		
CBN	1	0.0263	0.027	%	97.5	80.0 - 120	Acceptable		
exo-THC	2	0.0315	0.033	%	94.6	80.0 - 120	Acceptable		
d9THC	1	0.0308	0.031	%	98.8	90.0 - 110	Acceptable		
d8THC	1	0.0309	0.031	%	99.1	90.0 - 110	Acceptable		
9S-d10THC	1	0.0308	0.031	%	98.1	80.0 - 120	Acceptable		
CBL	2	0.0332	0.033	%	99.6	80.0 - 120	Acceptable		
9R-d10THC	1	0.0308	0.032	%	96.3	80.0 - 120	Acceptable		
CB	2	0.0323	0.033	%	97.0	80.0 - 120	Acceptable		
THCA	1	0.0349	0.036	%	97.1	90.0 - 110	Acceptable		
CBGA	2	0.0334	0.033	%	100	80.0 - 120	Acceptable		
CBLA	2	0.0339	0.033	%	102	80.0 - 120	Acceptable		
CBT	2	0.0327	0.033	%	98.1	80.0 - 120	Acceptable		

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.003	%	< 0.003	Acceptable	
CBDV	<LOQ	0.003	%	< 0.003	Acceptable	
CBE	<LOQ	0.003	%	< 0.003	Acceptable	
CBD	<LOQ	0.003	%	< 0.003	Acceptable	
CBGA	<LOQ	0.003	%	< 0.003	Acceptable	
CBG	<LOQ	0.003	%	< 0.003	Acceptable	
THCV	<LOQ	0.003	%	< 0.003	Acceptable	
THCVA	<LOQ	0.003	%	< 0.003	Acceptable	
CBN	<LOQ	0.003	%	< 0.003	Acceptable	
exo-THC	<LOQ	0.003	%	< 0.003	Acceptable	
d9THC	<LOQ	0.003	%	< 0.003	Acceptable	
d8THC	<LOQ	0.003	%	< 0.003	Acceptable	
9S-d10THC	<LOQ	0.003	%	< 0.003	Acceptable	
CBL	<LOQ	0.003	%	< 0.003	Acceptable	
9R-d10THC	<LOQ	0.003	%	< 0.003	Acceptable	
CB	<LOQ	0.003	%	< 0.003	Acceptable	
THCA	<LOQ	0.003	%	< 0.003	Acceptable	
CBGA	<LOQ	0.003	%	< 0.003	Acceptable	
CBLA	<LOQ	0.003	%	< 0.003	Acceptable	
CBT	<LOQ	0.003	%	< 0.003	Acceptable	

Abbreviations

ND - None Detected at or above MRL
RPD - Relative Percent Difference
LOQ - Limit of Quantitation

Units of Measure:

% - Percent



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Laboratory Quality Control Results

J AOAC 2015 V98-6		Batch ID: 2306152						
Sample Duplicate		Sample ID: 99-004081-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.0044	0.0044	0.003	%	0.236	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBD	0.0087	0.0087	0.003	%	0.279	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	0.0049	0.0049	0.003	%	0.717	< 20	Acceptable	
CBDA	1.32	1.33	0.003	%	0.268	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d9THC	0.0241	0.0232	0.003	%	3.78	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBC	0.0179	0.0179	0.003	%	0.0564	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBT	0.0075	0.0077	0.003	%	2.79	< 20	Acceptable	

Abbreviations

ND - None Detected at or above MRL
RPD - Relative Percent Difference
LOQ - Limit of Quantitation

Units of Measure:

% - Percent



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Explanation of QC Flag Comments:

Code	Explanation
Q	Matrix interferences affecting spike or surrogate recoveries.
Q1	Quality control result biased high. Only non-detect samples reported.
Q2	Quality control outside QC limits. Data considered estimate.
Q3	Sample concentration greater than four times the amount spiked.
Q4	Non-homogenous sample matrix, affecting RPD result and/or % recoveries.
Q5	Spike results above calibration curve.
Q6	Quality control outside QC limits. Data acceptable based on remaining QC.
R	Relative percent difference (RPD) outside control limit.
R1	RPD non-calculable, as sample or duplicate results are less than five times the LOQ.
R2	Sample replicates RPD non-calculable, as only one replicate is within the analytical range.
LOQ1	Quantitation level raised due to low sample volume and/or dilution.
LOQ2	Quantitation level raised due to matrix interference.
B	Analyte detected in method blank, but not in associated samples.
B1	The sample concentration is greater than 5 times the blank concentration.
B2	The sample concentration is less than 5 times the blank concentration.